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**From:** Neil, Mindy S [mindy.s.neil@wv.gov]  
**Sent:** 9/15/2021 4:57:34 PM  
**To:** Ettema, Leah [Ettema.Leah@epa.gov]  
**CC:** Voigt, Gregory [Voigt.Gregory@epa.gov]; Adair, Jillian [adair.jillian@epa.gov]  
**Subject:** Re: WV Ionic Toxicity TMDL call notes  
**Attachments:** Leah questions\_MSN.docx

Leah,

In the meantime, I took a stab at answering the questions. See attached. There may be more technical answers -- and different answers when dealing with the ion model, but I believe this will give you enough information to formulate additional questions.

I will work on getting mapping and data specific to those streams that are identified as impaired with ionic stress -- but will not be included in the project with Tt.

Mindy S. Neil

TMDL Program Manager

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On Wed, Sep 15, 2021 at 10:18 AM Ettema, Leah <Ettema.Leah@epa.gov> wrote:

Thanks Mindy. Any of those times work for me. So, lets try 10-11a.

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**From:** Neil, Mindy S <mindy.s.neil@wv.gov>  
**Sent:** Monday, September 13, 2021 2:22 PM  
**To:** Ettema, Leah <Ettema.Leah@epa.gov>  
**Cc:** Voigt, Gregory <Voigt.Gregory@epa.gov>; Adair, Jillian <adair.jillian@epa.gov>  
**Subject:** Re: WV Ionic Toxicity TMDL call notes

Leah,

I am not sure if I can answer everything, but can share my understanding.

I am open 10-1 or 3-4 on Monday. If those times do not work for you, I can rearrange my schedule and be free at 9:00.

Mindy S. Neil

TMDL Program Manager

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On Mon, Sep 13, 2021 at 11:21 AM Ettema, Leah <[Ettema.Leah@epa.gov](mailto:Ettema.Leah@epa.gov)> wrote:

Yes please. I'm sort of lost on where we are in the ionic toxicity modelling process steps and would appreciate any clarification you can provide. Monday next week is open for me if you're available.

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**From:** Neil, Mindy S <[mindy.s.neil@wv.gov](mailto:mindy.s.neil@wv.gov)>

**Sent:** Monday, September 13, 2021 11:15 AM

**To:** Ettema, Leah <[Ettema.Leah@epa.gov](mailto:Ettema.Leah@epa.gov)>

**Cc:** Voigt, Gregory <[Voigt.Gregory@epa.gov](mailto:Voigt.Gregory@epa.gov)>; Adair, Jillian <[adair.jillian@epa.gov](mailto:adair.jillian@epa.gov)>

**Subject:** Re: WV Ionic Toxicity TMDL call notes

Leah,

I was out on Friday. I am just catching up on emails. I will take a look at those you have sent today to get up to speed.

Do you still need to discuss?

Mindy S. Neil

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On Thu, Sep 9, 2021 at 5:39 PM Ettema, Leah <[Ettema.Leah@epa.gov](mailto:Ettema.Leah@epa.gov)> wrote:

Hi Mindy,

Would you have time to discuss the ionic toxicity model? I'm catching up to speed from the calls I missed. I'm happy to discuss with Jon. But, I figured I'd check with you first, since they are really about understanding the basic model. If you'd prefer I talk to Tt, that's totally fine.

Thanks!

Leah

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**From:** Ludwig, Jon <[jon.ludwig@tetrattech.com](mailto:jon.ludwig@tetrattech.com)>

**Sent:** Thursday, September 09, 2021 3:55 PM

**To:** Voigt, Gregory <[Voigt.Gregory@epa.gov](mailto:Voigt.Gregory@epa.gov)>; Adair, Jillian <[adair.jillian@epa.gov](mailto:adair.jillian@epa.gov)>; Ettema, Leah <[Ettema.Leah@epa.gov](mailto:Ettema.Leah@epa.gov)>

**Subject:** WV Ionic Toxicity TMDL call notes

Hi Jillian, Greg and Leah,

Attached are the notes from last week monthly call. I've also attached the spreadsheet containing list of impaired streams with decision rationales that Dave Montali presented during the call. You should be able to use the spreadsheet to follow along with the discussion in the notes.

Let me know if you have any questions or comments.

Thanks

Jon